

1950 LAND USE AND LAND COVER

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

DATA LAYER NAME: LU50

DATA LAYER DESCRIPTION: 1950 land use/cover categorized according to the Florida Land Use and Cover Classification System (FLUCCS). These data cover an eight quadrangle area in northwest Hillsborough County. Mapped features derived from aerial photographs and tied to 1:24,000 USGS quadrangles.

SECTION/DEPARTMENT: Mapping and GIS/Resource Data Department

REVISION/DATE: 1.0/April 2000

These data were not collected under the supervision of a licensed Professional Surveyor and Mapper.

Use caution when performing change detection between this data layer and the 1995 land use and land cover data set. These data layers were generated using different source materials, with different positional accuracy, and using different mapping methodologies. Attempts to conduct change detection analysis between these two data layers will result in false changes and silver polygon features.

LINEAGE

Description of Source Material(s)

Name:	Black and white aerial photography
Scale (ratio):	1:20,000
Projection:	Photographic
Datum:	Not Applicable
Source Media:	Black and white aerial photographs and transparencies
Condition of Media:	Fair to Good
Date of Materials:	December 1947 to January 1952
Update Schedule:	Unknown
Creator Organization or Individual	
Name:	Geonex, Inc.
Address:	8950 Ninth Street North, St. Petersburg, FL 33702
Phone:	(727)578-0100
Comments:	None

Name:	1990 land use and land cover Arc/INFO coverages
Scale (ratio):	1:24,000

Projection: UTM
Datum: NAD27
Source Media: Digital Arc/INFO coverages
Condition of Media: Not Applicable
Date of Materials: 1990 - 1991
Update Schedule: Every five years
Creator Organization or Individual
 Name: Southwest Florida Water Management District
 Address: 2379 Broad Street, Brooksville, FL 34609-6899
 Phone: (352)796-7211
Comments: None

Derivation Methods for Data

Pre-automation Compilation

Description: Land use and land cover features were photointerpreted , on screen, from 1:20,000 black and white aerial photographs that were scanned into a TIFF image format. The tiff images were scanned at 500 dots per inch (dpi) and registered to the 1990 land use and land cover data using the Arc/INFO register command. A minimum of 8 control points were used throughout each aerial photograph. These points were located within the existing 1990 land use and land cover polygons that were rectified to the 1:24,000 stable base in the 1990 study.

Date of Compilation: Between January and November 1994

Creator Organization or Individual

Name: Geonex, Inc.
Address: 8950 Ninth Street North, St. Petersburg, FL 33702
Phone: (727)578-0100

Comments: None

Automation Methods

Description: The 1990 land use and land cover Arc/INFO coverages (see 1990 QARS) were renamed to become the 1950 edit coverages. These coverage were overlaid onto the 1947-1952 scanned and rectified aerial photographs in ArcEdit. The photointerpreters systematically worked through each image making changes to the existing linework and attributes as defined by the feature boundary on the aerial photography. The adjacent coverages were displayed for edgematching to guarantee a seamless coverage. The 1947-1952 aerial photographs were displayed, in stereo, on a stereoscope adjacent to the on-screen display for photointerpretation needs and

confirmation of feature boundaries. Ancillary data sources such as NRCS soil surveys and the National Wetlands Inventory were utilized for feature boundary determination. Upon completion, the edits were saved and the coverage topology was generated using the ArcINFO BUILD command.

The Florida DOT's Florida Land Use ,Cover and Forms Classification System (FLUCCS) was used for all mapping. Uplands were mapped with a minimum mapping unit of 5 acres and wetlands were mapped with a minimum mapping unit of .5 acres. FLUCCS Level II categories were used for both upland and wetland features

Date of Automation: Between January and November 1994

Creator Organization or Individual

Name: Geonex, Inc.

Address: 8950 Ninth Street North, St. Petersburg, FL 33702

Phone: (727)578-0100

Equipment Used: Optronics ColorGetter drum scanner attached to an Intergraph station was used for scanning, Sun LX for on-screen digitizing

Software Used: Arc/INFO 6.0.1

Comments: None

COMPLETENESS OF FEATURE CAPTURE

Method: Check plots were generated that were used by different photointerpreters for inspection of feature delineations and classification.

Value: It is estimated that 100% of the features were captured.

Date Determined: Between January and November 1994

Comments: None

POSITIONAL ACCURACY

Method: Check plots of the 1950 land use and land cover were generated and were overlaid onto the 1:24,000 USGS stable base for comparisons of relatively well-defined features such as shorelines. From this check and a knowledge of the mapping procedures, a deductive estimate was made.

Value: No statistical verification of positional accuracy was done. Based on an analysis of

the source materials and methodology it is estimated that positional accuracies of approximately 13 - 100 meters can be expected.

Date Determined: Between April and November 1994

Comments: Land use/cover polygons represent fuzzy boundaries and exact positional accuracies are therefore difficult to obtain.

ATTRIBUTE ACCURACY

Method: Visual inspection of check plots and Arc/INFO's labelerror procedures.

Value: No statistical accuracy verifications have been done. Based on past projects of a similar nature it is estimated that classification accuracies of between 80% - 90% can be expected for Level II categories.

Date Determined: Between April and November 1994

Comments: None

ATTRIBUTE DESCRIPTION

Attribute Name	Attribute Description
FLUCCSCODE	The land use and land cover classification as defined by the Florida DOT's FLUCCS classification system.
DATESTAMP	The date the feature was last edited or entered into the map libraries by SWFWMD staff.
LEV1	Very general classification of land use/cover as defined in the Florida DOT's FLUCCS classification system.
LEV2	Land use classification more detailed than Lev 1 as defined in the Florida DOT's FLUCCS classification system.
LEV3	Detailed classification of Land use/cover as defined in the Florida DOT's FLUCCS classification system.
LEV4	Very specific classification of Land Use/cover as defined in the Florida DOT's FLUCCS classification system.